

## Abstract

A motion sensor, in particular an rpm sensor for the wheel rotation of a motor vehicle, and a method for producing a motion sensor are proposed, the motion sensor having an integrated circuit (32), connectable via an electrical cable (24), with a measured value transducer and an electronic circuit arrangement for processing the measurement signals. The sensor has a basic component (10), produced by casting or injection molding of thermoplastic, preferably polyamide, by the MID technique, into which basic component a permanent magnet (16) is integrated. A housingless integrated circuit (32) is mounted on the MID component by the flip-chip technique. The arrangement comprising the basic component (10) and the integrated circuit (32) and the permanent magnet (16) as well as the connection end of the cable (24) is sheathed, in a further method step, with an external encapsulation (42) and joined together to form a strong component unit that is well protected against environmental factors.